

*California Department of Transportation  
Division of Maintenance*

***Structure Maintenance and Investigations***

---

**B**RIDGE

**I**NSPECTION

**R**ECORDS

**I**NFORMATION

**S**YSTEM

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APPROXIMATE QUANTITIES

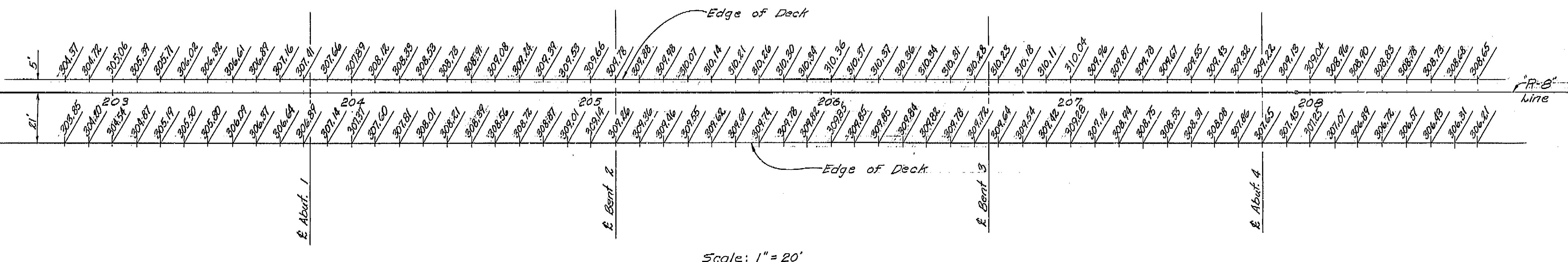
|  |             |
|--|-------------|
| TEMPORARY RAILING ( TYPE K )                       | 460 LF      |
| RECONSTRUCT METAL RAILING                          | 97 LF       |
| 16" CAST-IN-DRILLED-HOLE CONCRETE PILING           | 1,785 LF    |
| PRESTRESSING CAST-IN-PLACE CONCRETE                | LUMP SUM    |
| RIPPED TEXTURE ( REINFORCING BAR )                 | 1,000 SQ FT |
| WATERSTOP  | 40 LF       |
| STRIP WATERSTOP                                    | 48 LF       |
| 20" CAST-IN-DRILLED-HOLE CONCRETE PILING           | 650 LF      |
| 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK ) | 148 LF      |
| CLASS 1 PERMEABLE MATERIAL ( BRIDGE )              | 18 CY       |
| SLOPE PAVING (CONCRETE)                            | 27 CY       |
| METAL RAILING ( TYPE K )                           | 988 LF      |
| 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK )  | 142 LF      |
| FINAL QUANTITIES                                   |             |
| STRUCTURE EXCAVATION ( BRIDGE )                    | 535 CY      |
| STRUCTURE BACKFILL ( BRIDGE )                      | 390 CY      |
| STRUCTURE CONCRETE, BRIDGE FOOTING                 | 170 CY      |
| STRUCTURE CONCRETE, BRIDGE                         | 180 CY      |
| CAST-IN-PLACE PRESTRESSED CONCRETE (GRADE 35-50)   | 725 CY      |
| BAR REINFORCING STEEL ( BRIDGE )                   | 197,000 LB  |

| DIST. | COUNTY | ROUTE | POST MILES-TOTAL PROJECT | EXHT | TOTAL |
|-------|--------|-------|--------------------------|------|-------|
| 06    | Fresno | 41    | R22.5/R23.8              | 99   | 235   |

R.C.Slade

DESIGN EDITION SUPERVISOR REGISTERED CIVIL ENGINEER NO. 6002  
DATE APPROVED May 30, 1972

Z



Scale: 1" = 20'

PRESTRESSING NOTES  
 $P_{\text{jack}} = 5000 \text{ kips}$  total at jacking ends.  $A_s = \frac{P_{\text{jack}}}{0.75 \text{ f}_s}$

Total number of girders = 4

CONCRETE:  $f'_c = 3500 \text{ psi}$  at 28 days;  $f'_ci = 3500 \text{ psi}$  at time of stressing

GENERAL: 1. Design is based on  $u = 0.25$  and  $k = 0.0002$ . For girders on horizontal curved alignment ( $k+k'$ ) =  $\frac{k}{k+k'}$  where  $k'$  is a modification factor which considers the effect of such curvature on friction.  
2. Jack specified at the jacking ends includes friction losses and provision for 25,000 psi loss in stress.  
3. Contractor to submit elongation and jacking calculations based on  $u_{\text{oc}} + k_1 = 0.27$  or  $u_{\text{oc}} + (k+k') L = 0.27$  and initial stress at  $\Delta = 0.84$  times jacking stress.

#### GENERAL NOTES

DESIGN: A.A.S.H.O. dated 1969 with revisions and as supplemented by BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: HS20-44 and alternative

REINFORCED CONCRETE:  $f_s = 24,000 \text{ PSI}$ , except  $= 20,000 \text{ PSI}$  in transverse deck slabs and stirrups

$f_c = 1,300 \text{ PSI}$ , except  $= 1,200 \text{ PSI}$  in transverse deck slabs

$n = 10$

#### Note:

Deck elevations are figured @ 10' stations normal from "P-B" line up to station 207 + 94.08 & radially from this station on.

These elevations do not include cambers

"NO AS-BUILT CORRECTIONS"  
AS BUILT

CORRECTIONS BY \_\_\_\_\_  
CONTRACT NO. \_\_\_\_\_  
DATE \_\_\_\_\_

#### BRIDGE DEPARTMENT DESIGN SECTION 15

STATE OF CALIFORNIA  
TRANSPORTATION AGENCY  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

#### GRID GRADES

| BRIDGE    | POST | DRAWING | SECTION |
|-----------|------|---------|---------|
| 42 227 OR | 22.7 | NO.     | 2 9     |

Bridge prints bearing earlier revision date →

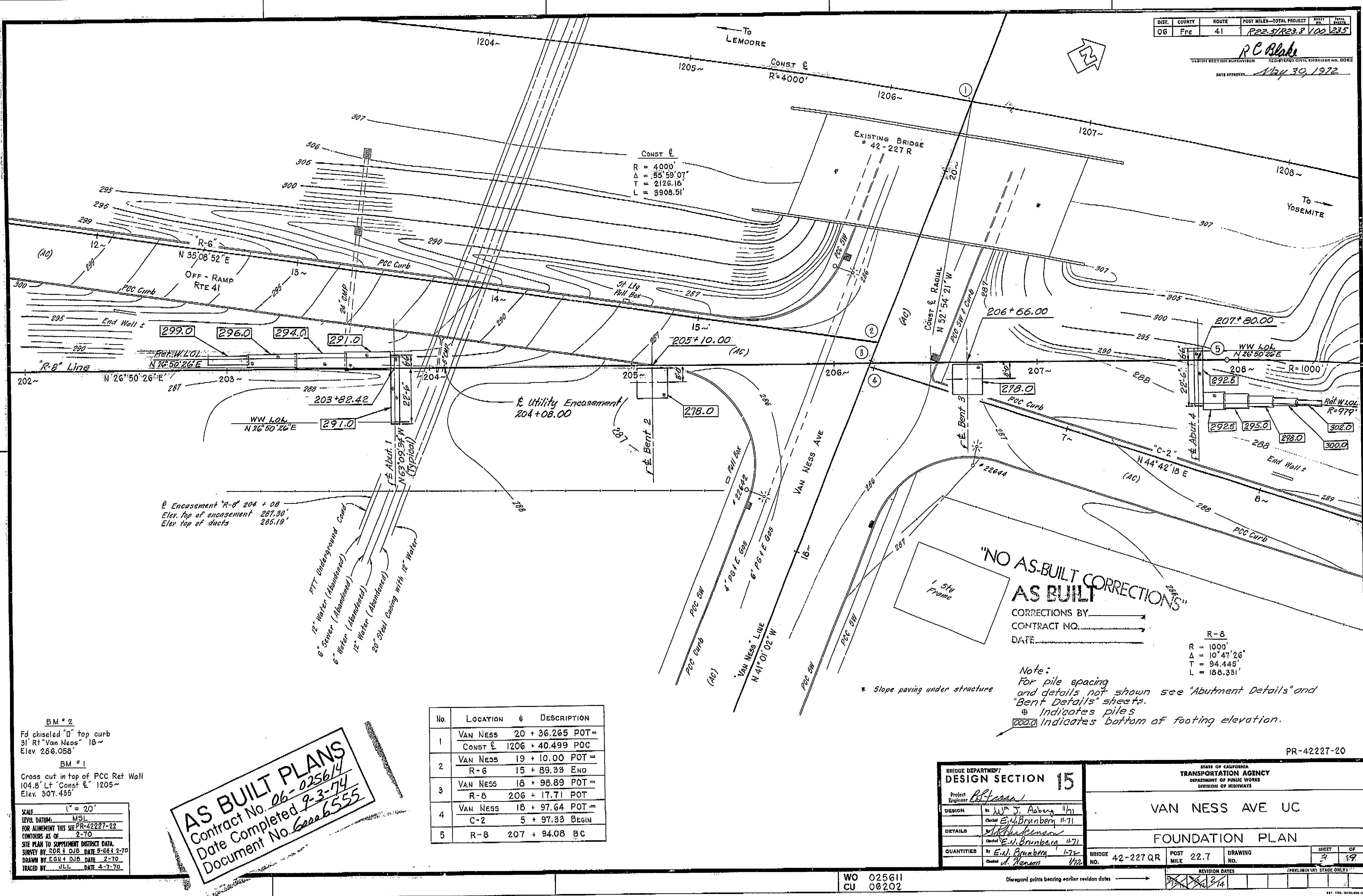
Revision dates (Preliminary Stage Only)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

6/27/75 *Rich Meadour* *Matthew Steiner*

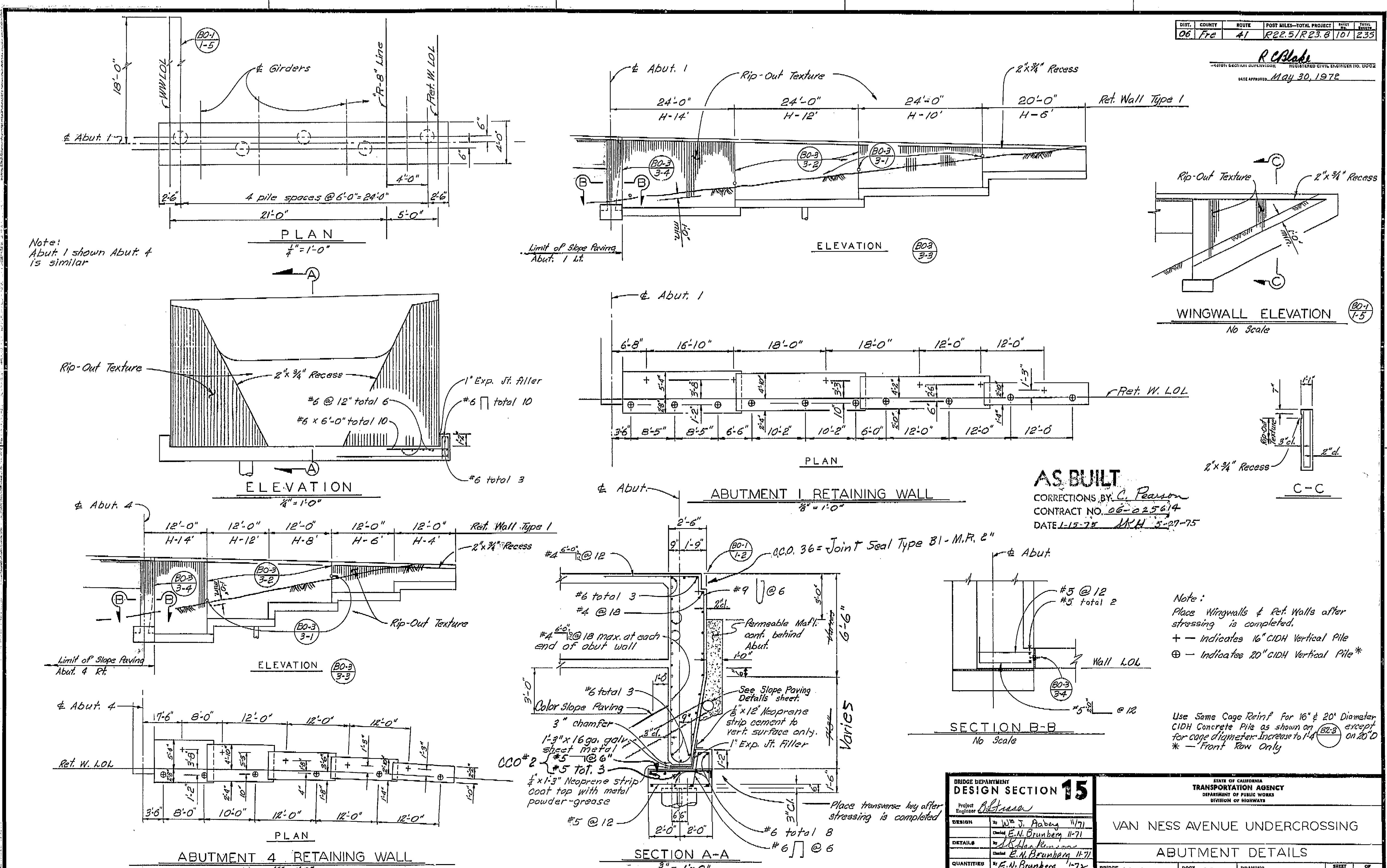
AS BUILT PLANS  
Contract No. 06-025614  
Date Completed 9-3-74  
Document No. 60006555

WO  
CU



I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

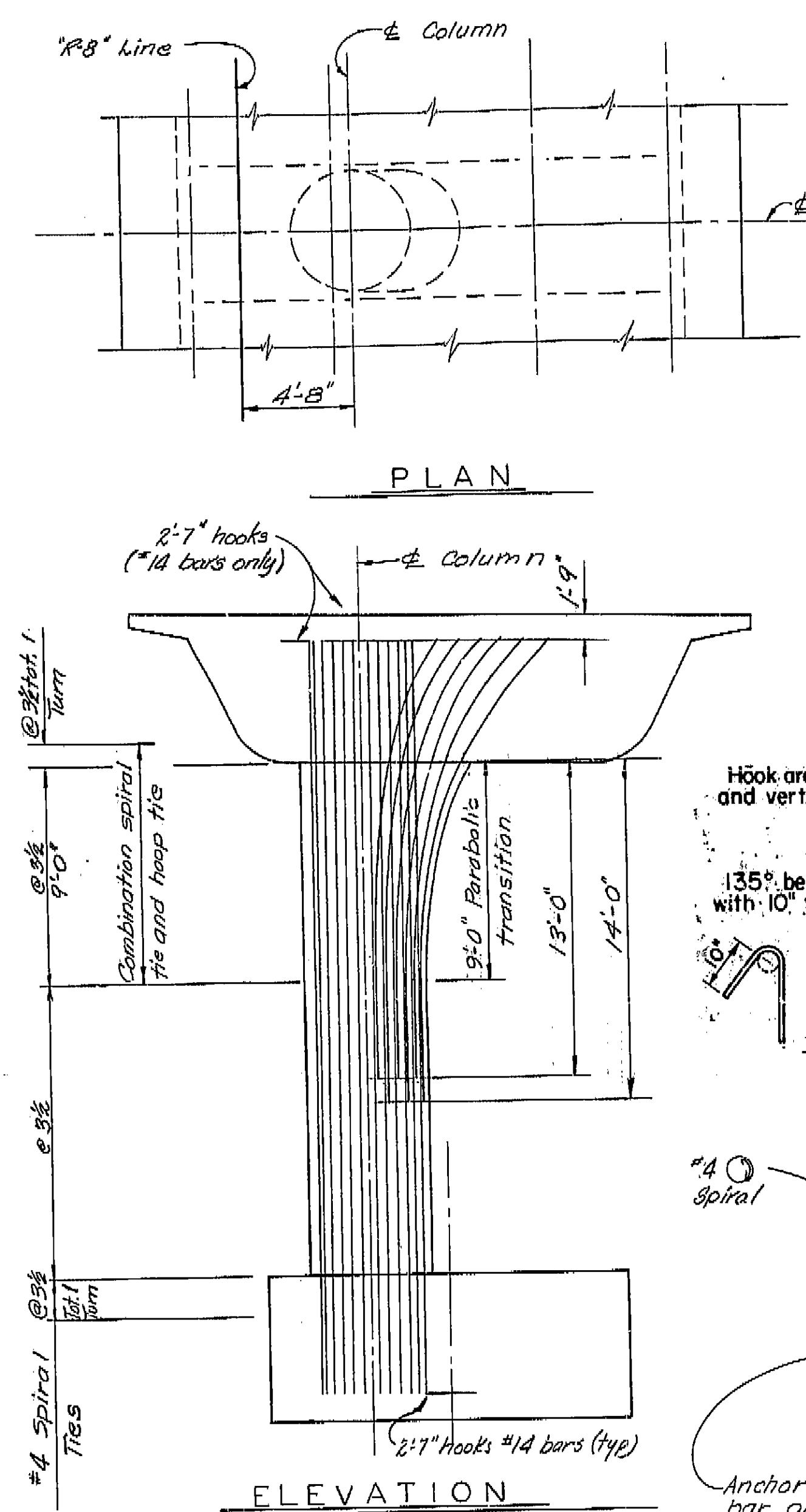
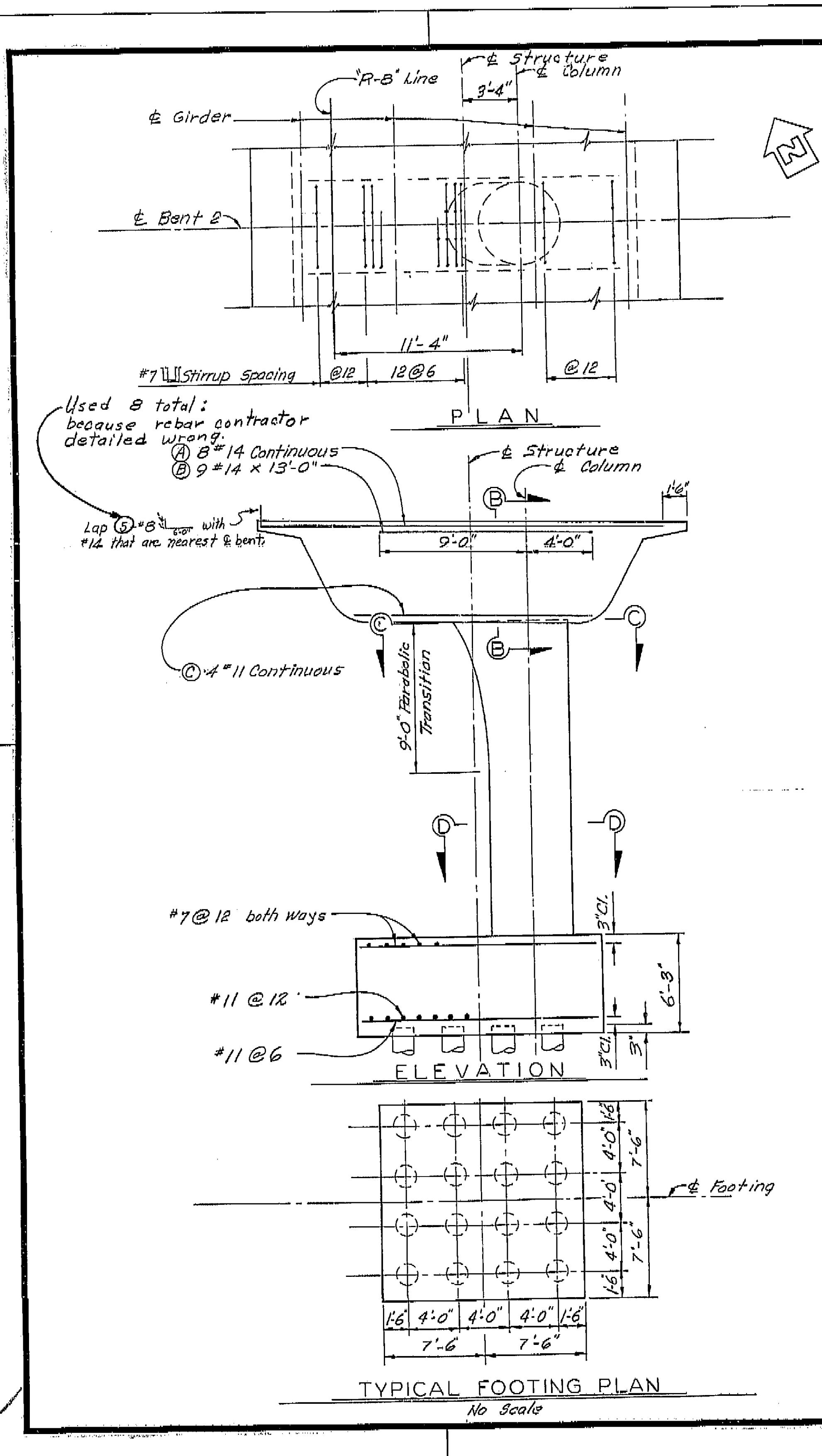
6/27/75 *Rich Macrae* *Mayfield Supervisor*



**AS BUILT PLANS**  
Contract No. 06-025614  
Date Completed 9-3-74  
Document No. 60006555

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UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

Date: 6/27/75 Signature: Dick MacLaine Title: Manager Supervisor



Note: Column Reinf. may be adjusted as necessary to clear prestressing ducts.

Bents 2 and 3 are similar except as noted.

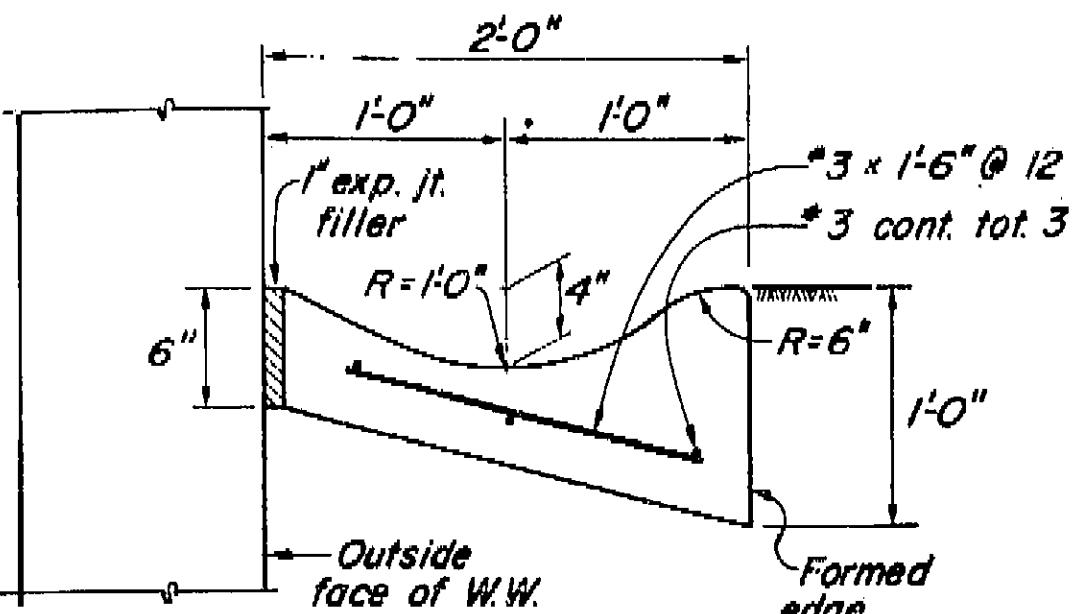
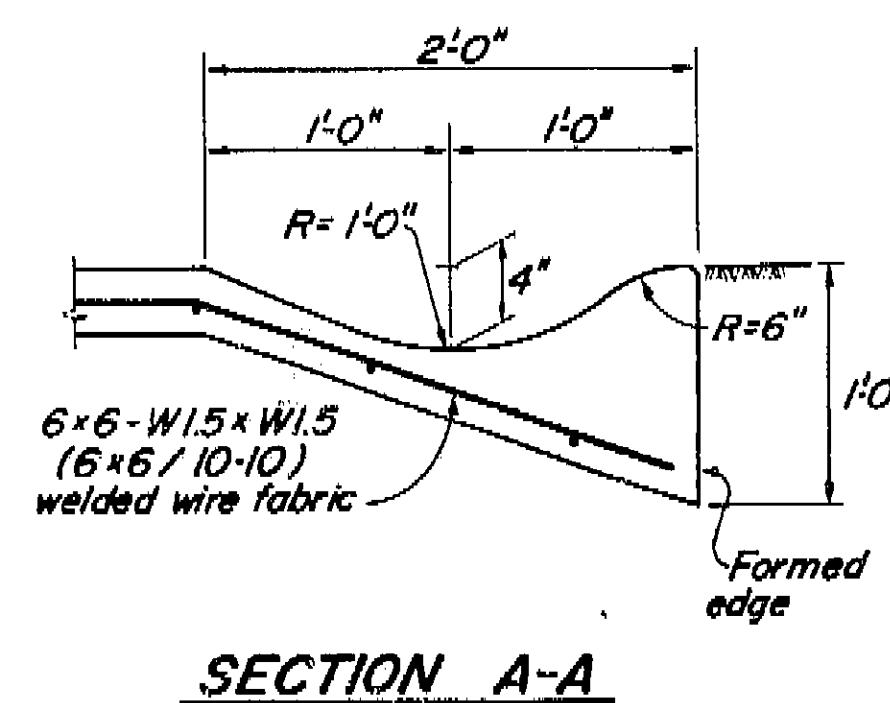
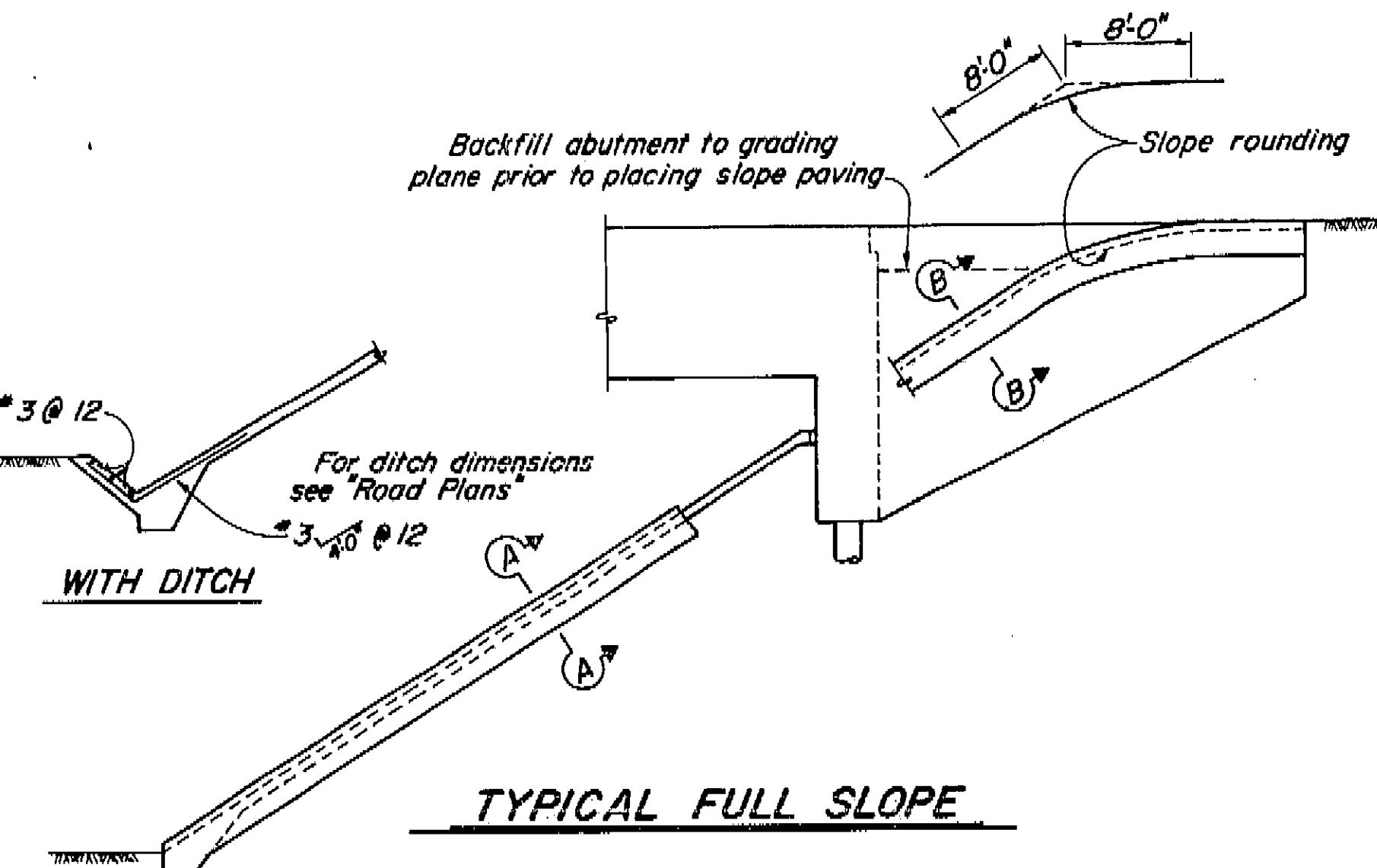
Scale:  $\frac{1}{4}'' = 1'-0''$ , Sections  $\frac{1}{8}'' = 1'-0''$  or as noted.

**AS BUILT PLANS**

|  |  |   |   |  |             |
|--|--|---|---|--|-------------|
| AS BUILT   |  | BRIDGE DEPARTMENT<br>DESIGN SECTION 15            |   | STATE OF CALIFORNIA<br>TRANSPORTATION AGENCY<br>DEPARTMENT OF PUBLIC WORKS<br>DIVISION OF HIGHWAYS |             |
| CORRECTIONS BY <u>C. Pearson</u><br>CONTRACT NO. <u>06-025614</u><br>DATE <u>1-15-75</u> <u>AM 5-28-75</u> |  | Project Engineer <u>B.F. Freeman</u>              |   | VAN NESS AVENUE UNDERCROSSING  |             |
| DESIGN   | By <u>W. Wm. J. Aaberg</u> 11/71<br>Checked <u>E.N. Brunberg</u> 11-71 | DETAILS   | <u>E. N. Brunberg</u><br>Checked <u>E.N. Brunberg</u> 11-71 | BENT DETAILS   |             |
| QUANTITIES   | By <u>E.N. Brunberg</u> 1-72<br>Checked <u>A. Hansen</u> 1/72          | BRIDGE NO.  | <u>42-227QR</u>   | POST MILE  | <u>22.7</u> |
|  |  | DRAWING NO.                                       |   | SHEET  | OF          |
|  |  |   |   | <u>5</u>   | <u>9</u>    |
|  |  | DISREGARD PRINTS BEARING EARLIER REVISION DATES → |   | REVISION DATES (PRELIMINARY STAGE ONLY)  |             |
| WO<br>CU   |  | 9/71<br>10/72<br>8/74                             |   |  |             |

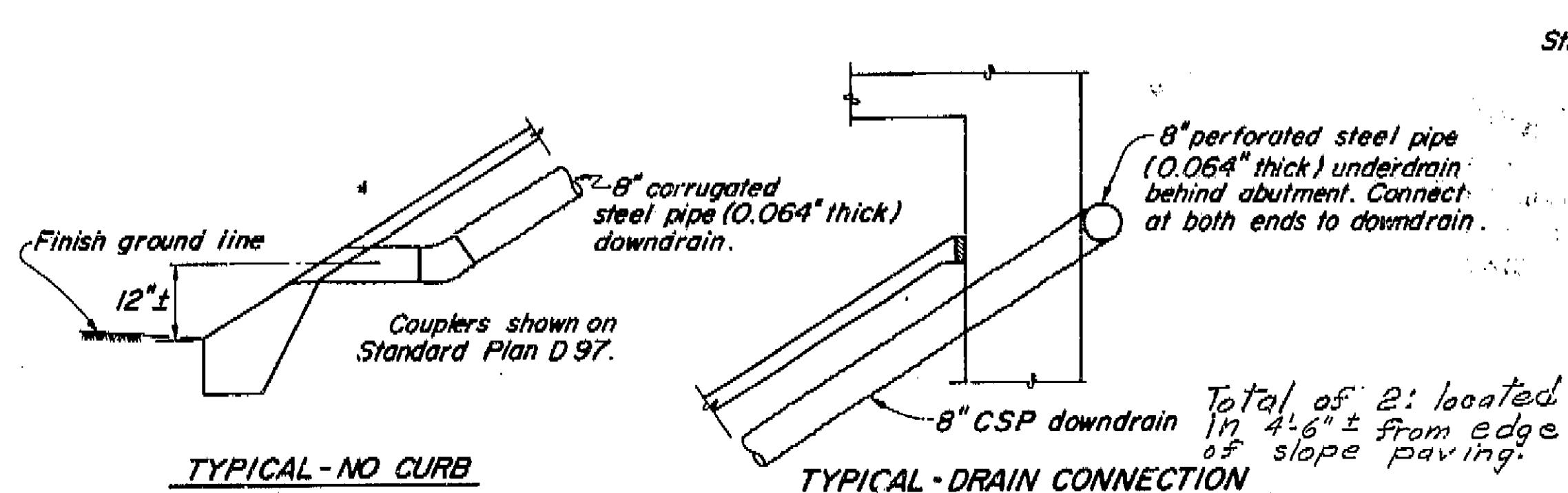
DIST. COUNTY ROUTE POST MILES-TOTAL PROJECT PAGE NO. TOTAL MILES  
06 FRE 41 R22.5/R23.8 104 0.35

*[Signature]*  
BRIDGE ENGINEER REGISTERED CIVIL ENGINEER No. 5540  
DATE APPROVED May 30, 1972



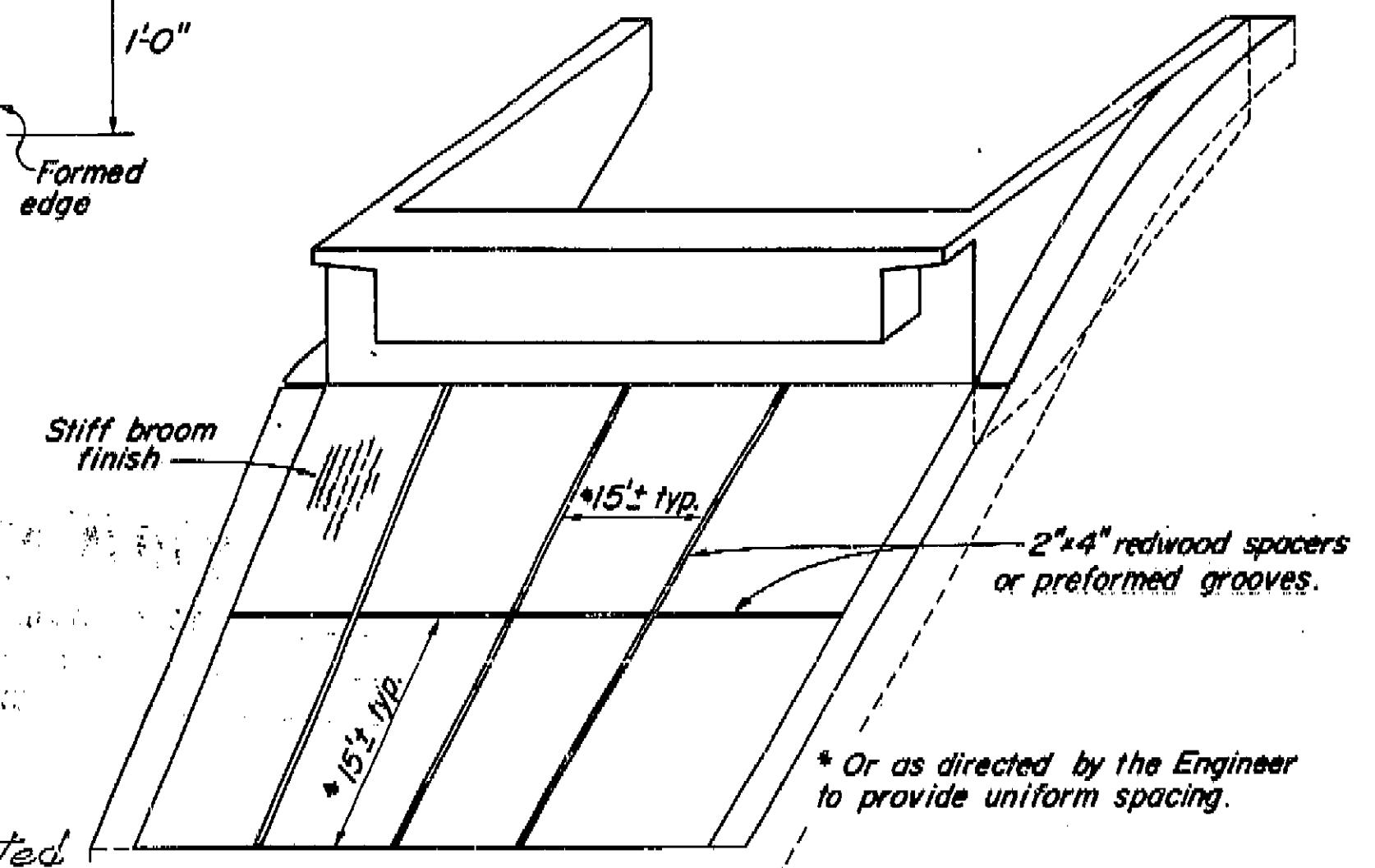
SECTION A-A

SECTION B-B

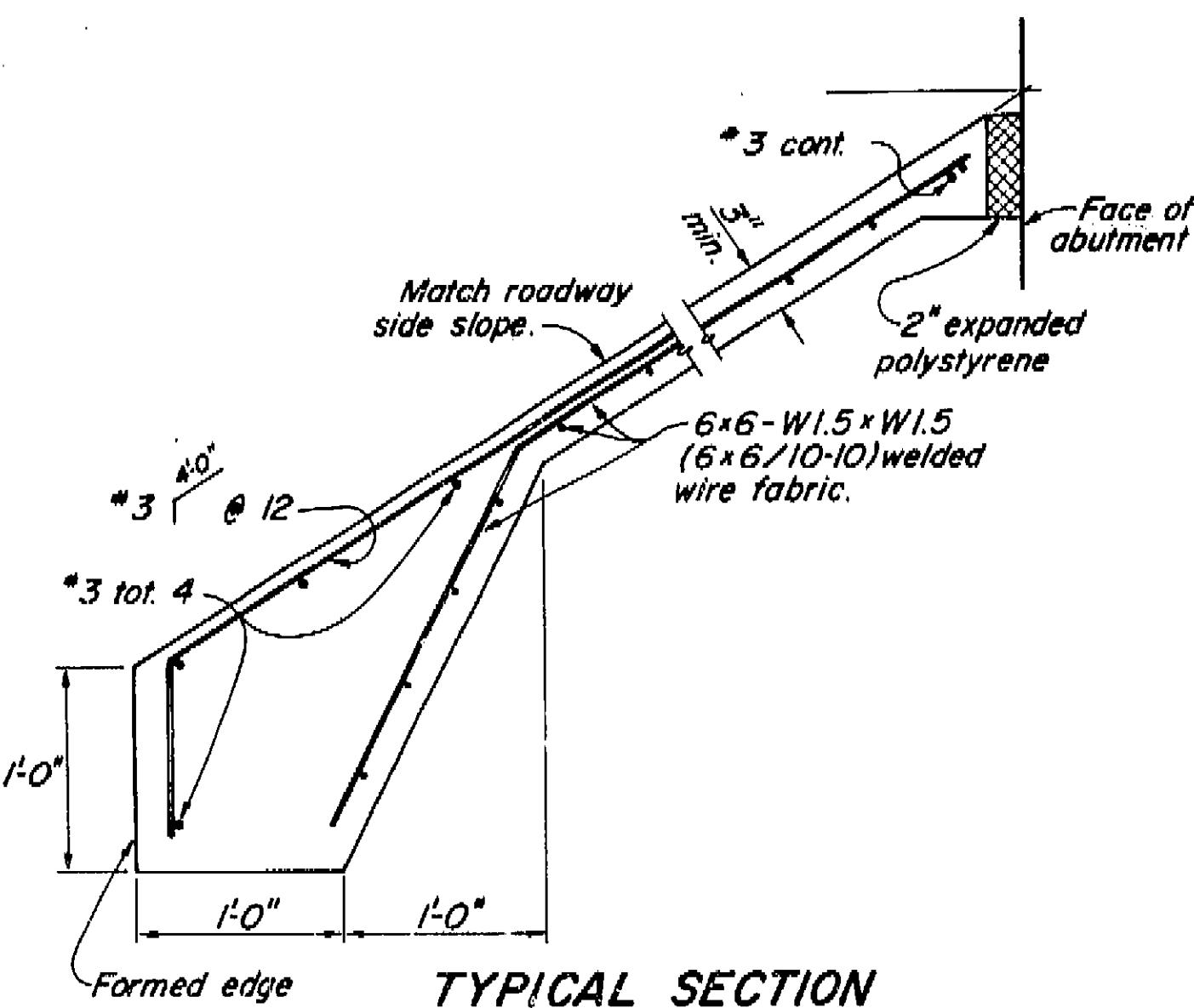


TYPICAL - NO CURB

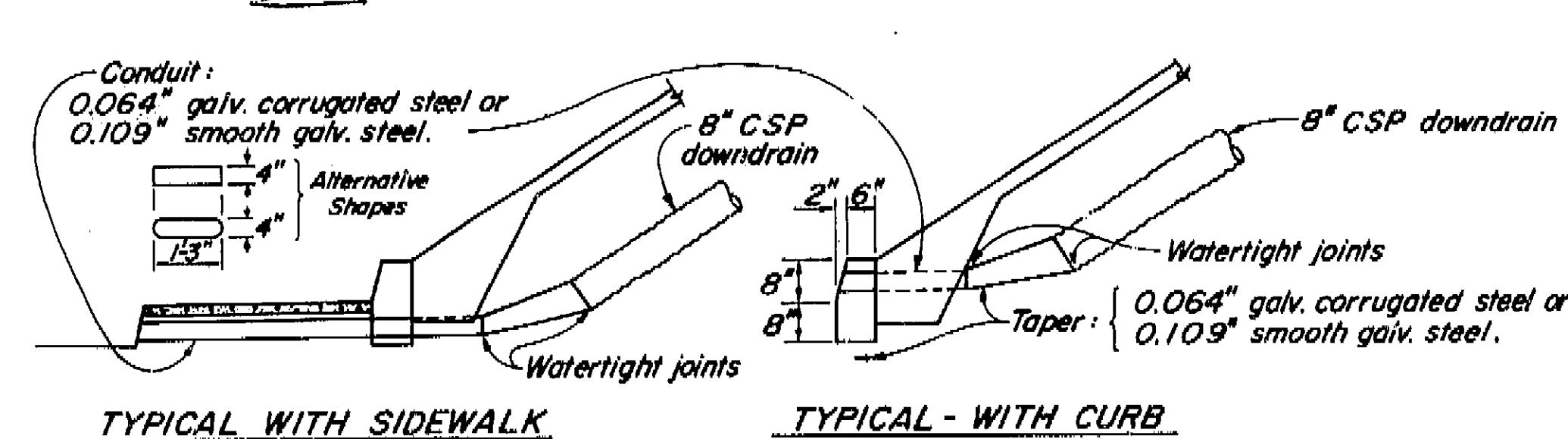
TYPICAL - DRAIN CONNECTION



PICTORIAL VIEW OF TYPICAL INSTALLATION



TYPICAL SECTION



TYPICAL WITH SIDEWALK

TYPICAL - WITH CURB

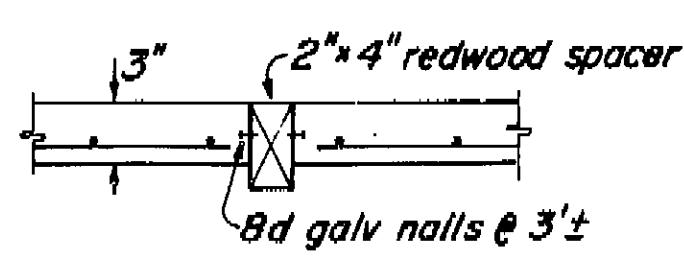
DRAINAGE DETAILS

Note: In case of conflict between curb details shown here and those on Road Plans, the Road Plans shall govern.

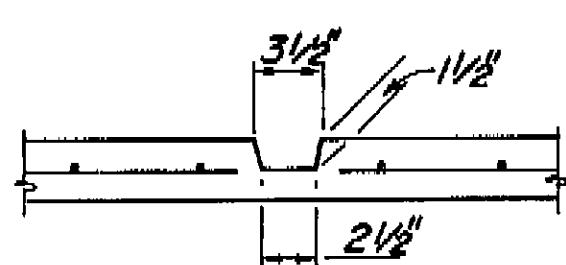
### AS BUILT

CORRECTIONS BY C. Pearson  
CONTRACT NO. 06-025614  
DATE 1-15-75 *MH 5-28-75*

AS BUILT PLANS  
Contract No. 06-025614  
Date Completed 9-3-74  
Document No. 60066555



SPACER DETAIL  
USED



PREFORMED GROOVE

### LIMITS OF SLOPE PAVING

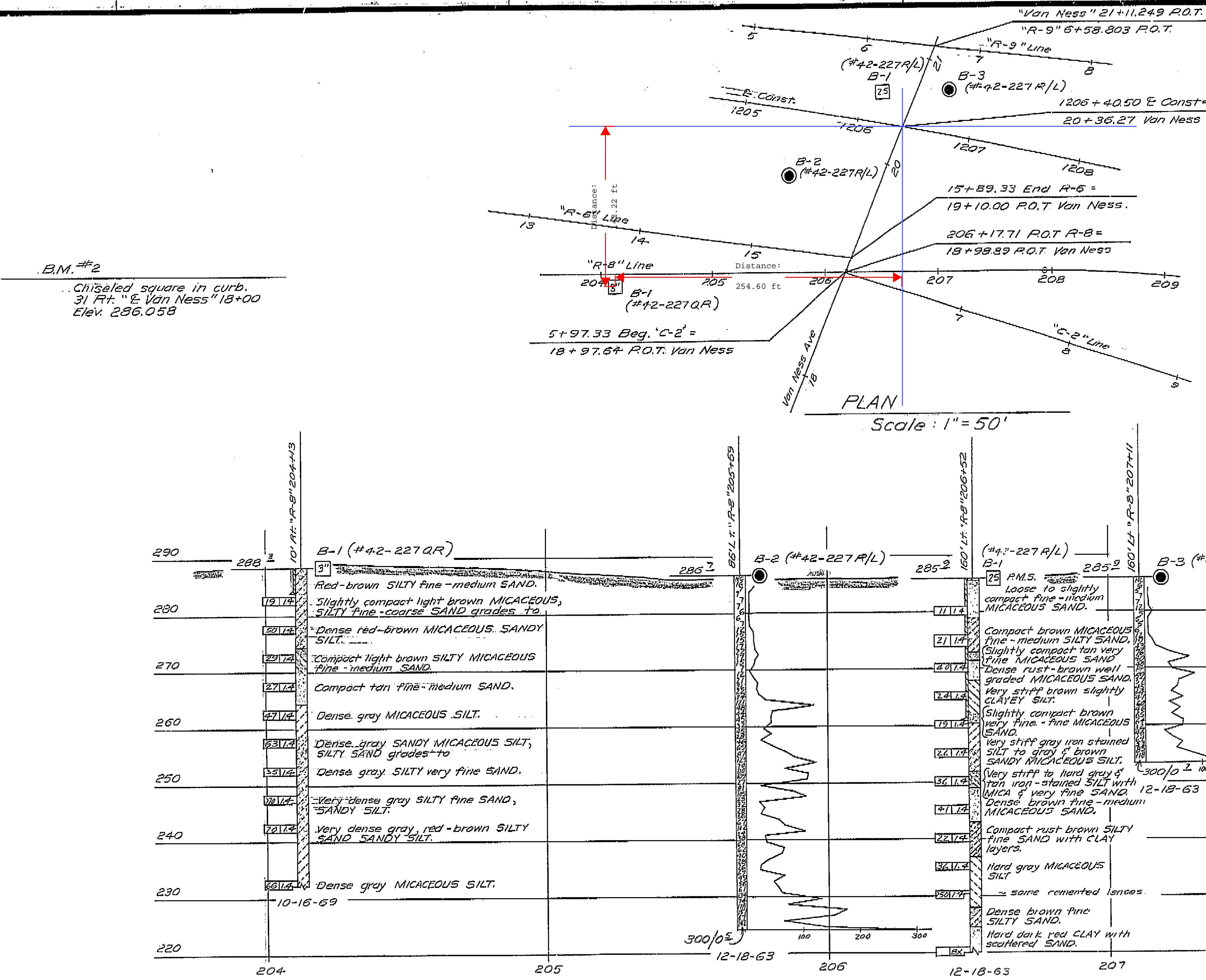
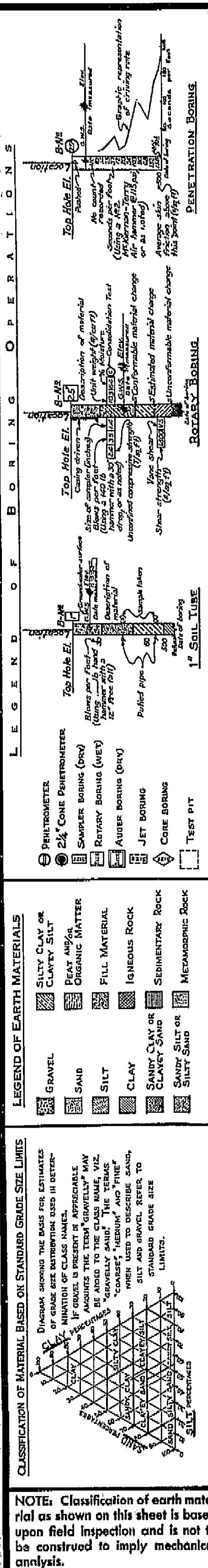
| BRIDGE DEPARTMENT DESIGN SECTION 15        |   | 8 / 71            | STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS XS-22-11 |
|--|---|-------------------|---|
| <i>[Signature]</i>                         |   |                   |   |
| DESIGN                                     | Wm J. Abey 11/71<br>EN Brunberg 11/71   |                   |   |
| DETAILS                                    | RAND TAMBERT 10-71<br>EN Brunberg 11/71 |                   |   |
| QUANTITIES                                 | EN Brunberg 1-72<br>A. Nixon 1/2        |                   |   |
| VAN NESS AVENUE UNDERCROSSING              |   |                   |   |
| SLOPE PAVING DETAILS - FULL SLOPE          |   | BRIEF NO. 7 NO. 9 |   |
| BRIDGE NO. 42-227 QR MILE 22.7 DRAWING NO. |   |                   |   |
| DRAFTED PRINTS BEARING LATER REVISION DATE |   | 1/26/75           | REVISED DATE  |
| REVISION NUMBER                            |   |                   | (Preliminary Stage Only)  |

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.  
*6/1/75* *Rock MacEachan* *McMahon Supervisor*

|             |                         |
|-------------|-------------------------|
| FIELD STUDY | By J. Blonke 10-69      |
| DRAWN       | By S. Konomura 10-27-69 |
| CHECKED     | By J. Blonke 11-25-69   |

Approved Recommended by *J. Blonke* -  
Engineering Geologist *J. Blonke* -

## **BRIDGE DEPARTMENT ENGINEERING GEOLOGY SECTION**



**NOTE:** Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

**AS BUILT PLANS**  
Contract No. 06-025614  
Date Completed 9-3-74  
Document No. 6000655

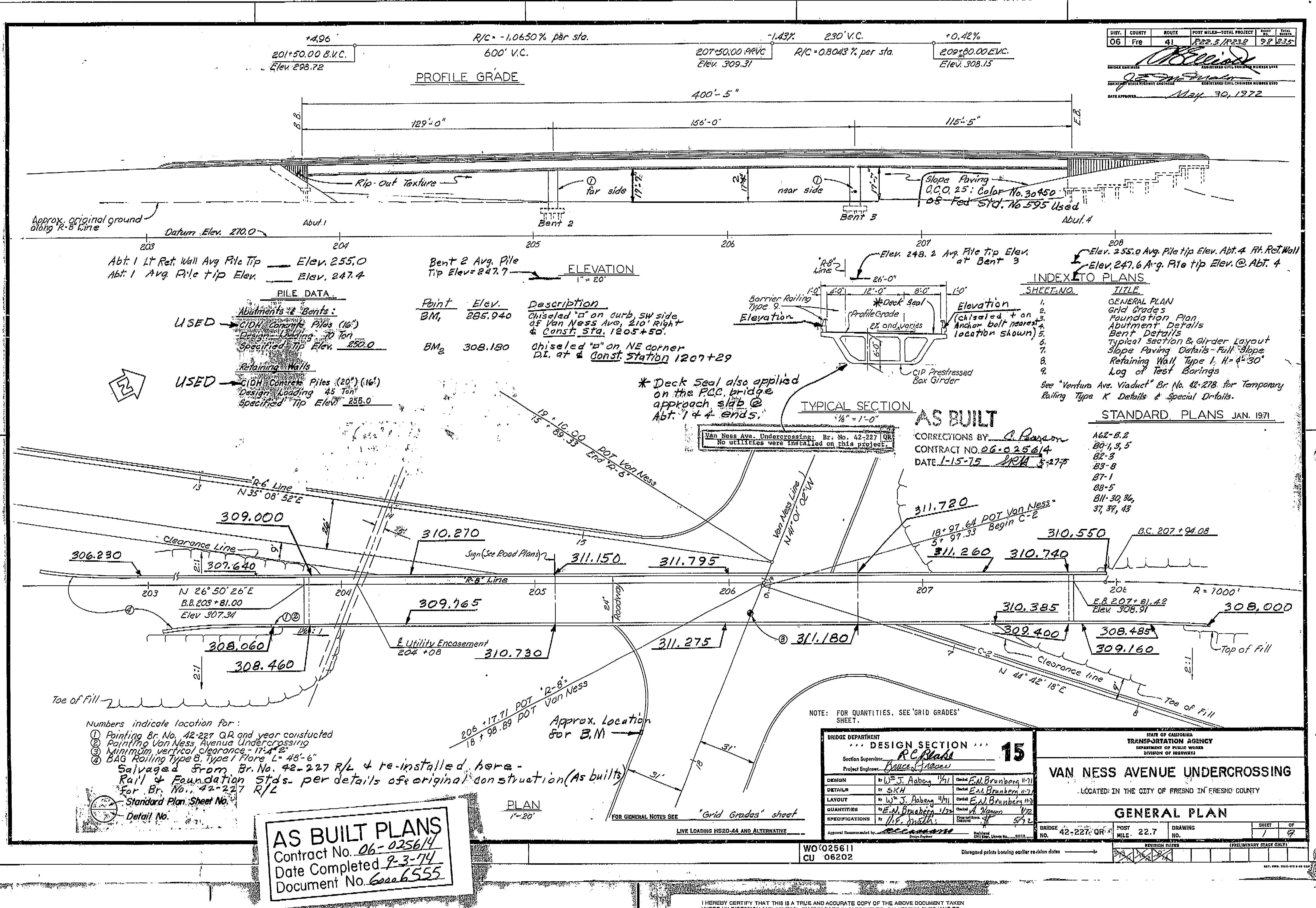
**NO GROUND WATER ENCOUNTERED  
DURING THIS INVESTIGATION BY  
BRIDGE DEPT. GEOLOGY SECTION**

### PROFILE

Scale. Horz. 1" = 20'  
Vert. 1" = 10'

| <p><b>STATE OF CALIFORNIA<br/>TRANSPORTATION AGENCY<br/>DEPARTMENT OF PUBLIC WORKS<br/>DIVISION OF HIGHWAYS</b></p> |              |                |      |                          |    |
|---|--------------|----------------|------|--------------------------|----|
| <p><b>VAN NESS AVENUE UNDERCROSSING</b></p>   |              |                |      |                          |    |
| <p><b>LOG OF TEST BORINGS</b></p>   |              |                |      |                          |    |
| BRIDGE<br>NO.   | POST<br>MILE | DRAWING<br>NO. |      | SHEET                    | OF |
| 42-227QR  | 22.7         |                |      | 9                        | 9  |
| Last revision date(s) →   |              | REVISION DATES |      | (PRELIMINARY STAGE ONLY) |    |
|   |              | 7/2/65         | 10/n |                          |    |

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UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
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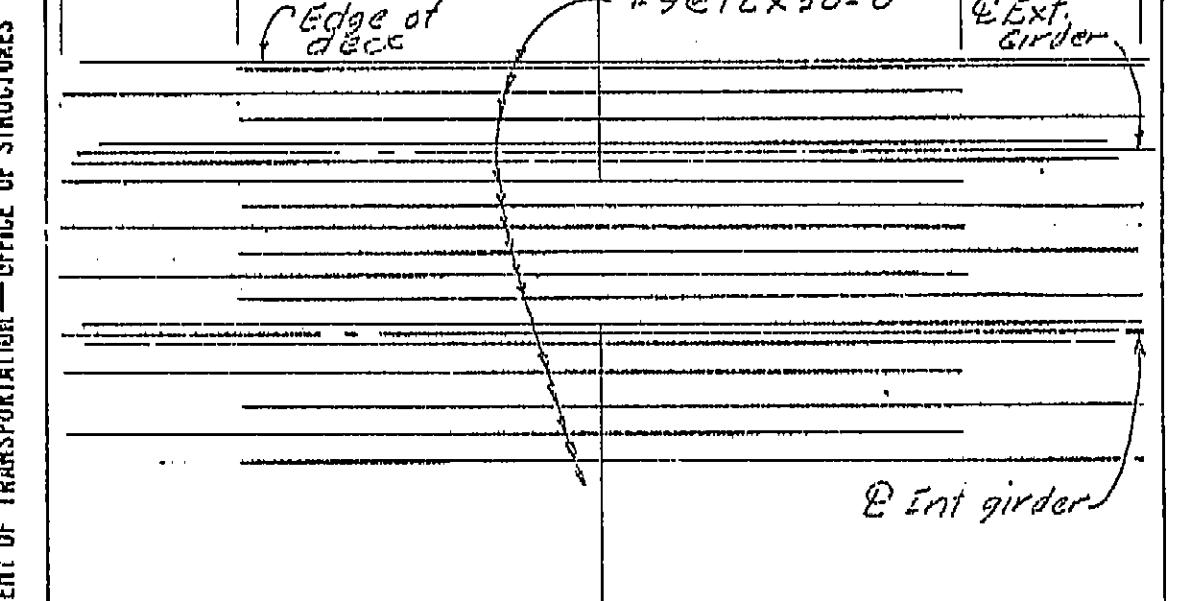


## CROSS SECTIONS

CROSS SECTIONS  
SCALE: 1 INCH = 5 FEET

**AS BUILT PLANS**  
 Contract No. 06-025614  
 Date Completed 9-3-74  
 Document No. 60066555

STATE OF CALIFORNIA—DEPARTMENT OF TRANSPORTATION—OFFICE OF STRUCTURES



|                            |           |       |         |
|----------------------------|-----------|-------|---------|
| DESIGNED BY                | AL HESSER | DATE  | 11-2-73 |
| DRAINED BY                 | Y         | DATE  | 11-2-73 |
| CHECKED BY                 | RK        | DATE  | 11-2-73 |
| APPROVED                   |           | DATE  |         |
| VAN NESS AVE UNDERCROSSING |           |       |         |
| (C.C.O. 45)                |           | Sheet | 2 of 4  |
| BRIDGE NO. 4222708         | CU 06501  |       |         |
| SCALE: none                | WO 025614 |       |         |

HD 121 JAN 1973

**AS BUILT**Corrections by L. P. Larson, P.E.  
Date 1-22-75

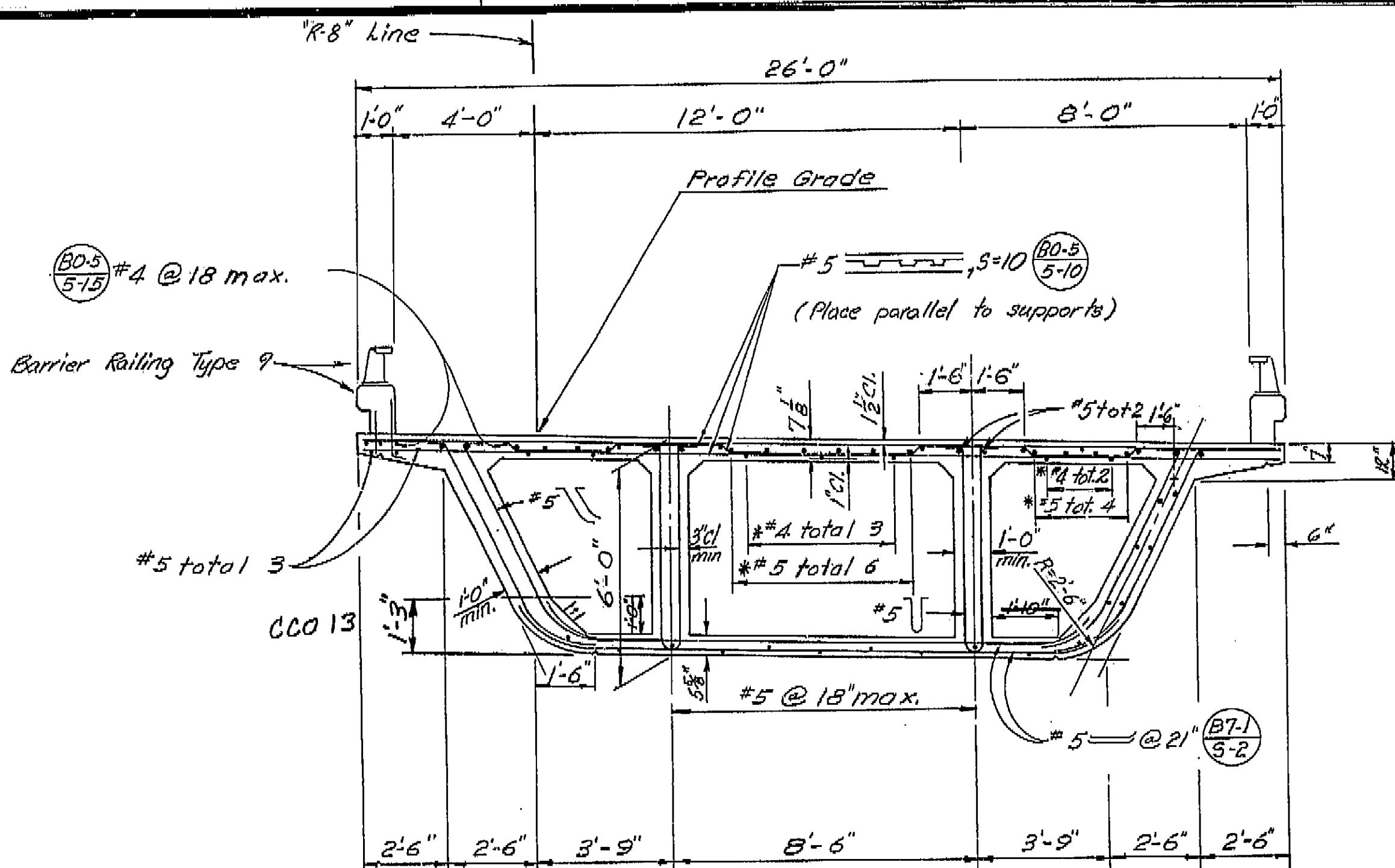
VAN NESS AVENUE UNDERCROSSING

TYPICAL SECTION &amp; GIRDER LAYOUT

SUPPLEMENTAL SHEET

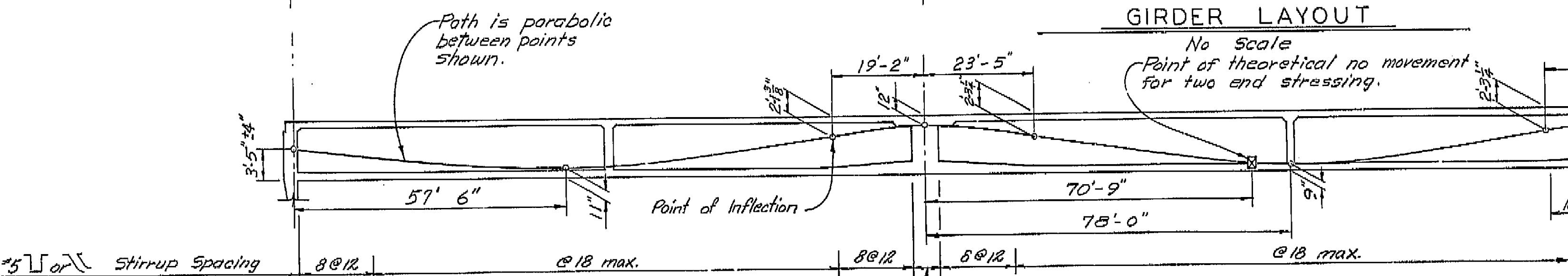
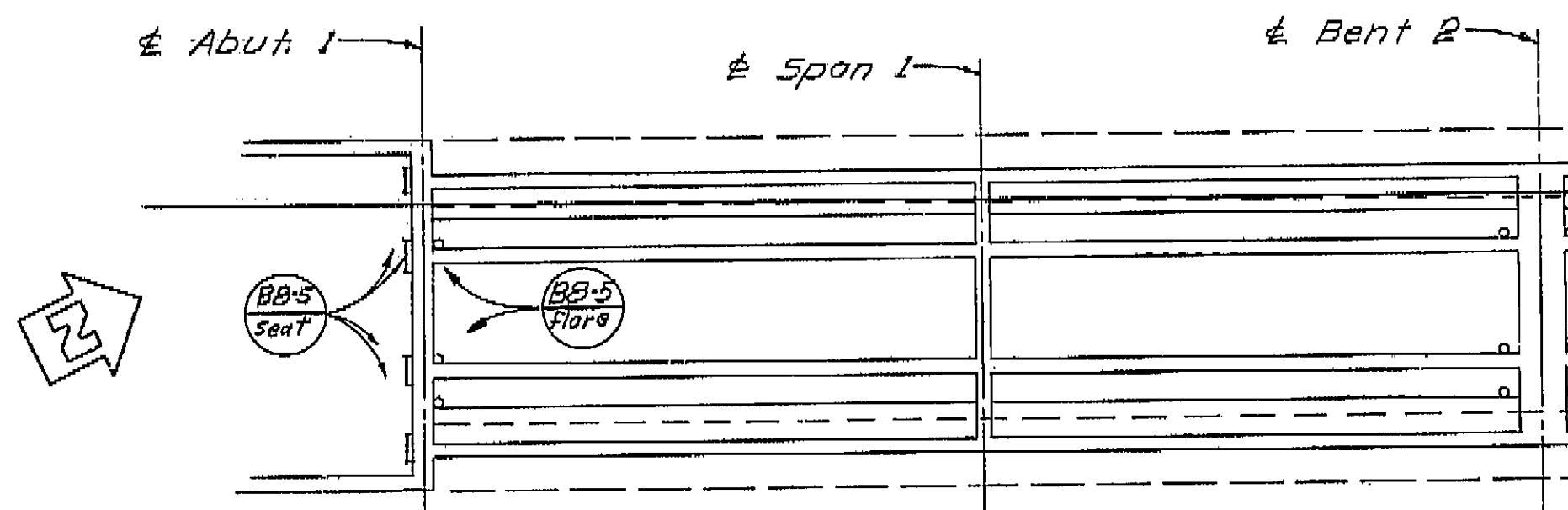
DIST. COUNTY ROUTE POST MILES-TOTAL PROJECT SHEET TOTAL BUREAU  
06 Fra 41 R22.5/R23.8 103235

R.C. Blake  
DESIGN SECTION SUPERVISOR REGULATORY CIVIL ENGINEER NO. 0082  
DATE APPROVED May 30, 1972



TYPICAL SECTION

$\frac{1}{8}$ " = 1'-0"



AS BUILT PLANS  
Contract No. 06-025614  
Date Completed 9-3-74  
Document No. 60006555

LONGITUDINAL SECTION

No Scale

AS BUILT

CORRECTIONS BY C Pearson  
CONTRACT NO. 06-025614  
DATE 1-15-75 SICK 5/28/75

WO  
CU

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UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/27/75 SIGNATURE Rick Macalane TITLE May 28th Supervisor

DATA SHEET

BRIDGE DEPARTMENT  
DESIGN SECTION 15  
Project Engineer: B.L. Foster

STATE OF CALIFORNIA  
TRANSPORTATION AGENCY  
Department of Public Works  
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

|                     |                |               |            |
|---------------------|----------------|---------------|------------|
| BRIDGE NO. 42-227QR | POST MILE 22.7 | DRAWING NO. 6 | SHEET OF 9 |
|---------------------|----------------|---------------|------------|

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (Preliminary Stage Only)

EST. 1000, REVISED 1000, 1000